



K SERIES

ALARM CONTROL UNIT

USER MANUAL

BETA VERSION



IMPORTANT NOTES

- The following manual has been prepared to provide assistance to users who use the system. All those who use the systems listed in this manual must be authorized.
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AMC Electronics s.r.l. ensures that products are free from defects in workmanship.

The product is not installed by the manufacturer and can be used with other products not manufactured by AMC Elettronica srl, the manufacturer does not guarantee or be held responsible for damage and / or theft or other types of issues caused by an incorrect installation and / or configuration of the system.

Is not guaranteed to:

- improper use of the panel
- programming errors
- manipulation and vandalism
- wear and tear
- lightning, floods, fire.

AMC Electronics s.r.l. reserves the right to repair or replace the defective product within the limits established for 24 months.

A different use from that stated in this manual will void the warranty.

The installation must be performed in a workmanlike manner by qualified personnel.

COMPLIANCE

AMC Electronics s.r.l. declares that the K series alarm control unit are provisions of Directive 1999/5 /CE

On our web site www.amcelettronica.com

STANDARDS CEI 79-2:1998+AB:2000, CEI EN 50131-3:2009 E CEI EN 50131-6:2008

All products mentioned in this manual are in accordance with the rules:

CEI 79-2:1998+Ab:2000, CEI EN 50131-3:2009 e CEI EN 50131-6:2008

Grade: 2

Following is the list of normed products:

K4: control unit

K8: control unit

PSTN carrier ATS type B on board K4 e K8 (ATS2: D2-M2-T2-S0-I0)*

SR 136: self powered siren (WD)

KLCD: keypad

KLIGHT: keypad

KXIN: inputs expansion

KXOUT: outputs

AL 2: power supply 14.2Vdc 2A

AL 3: power supply 14.2Vdc 3A

Xgprs/gsm: gsm - gprs module

IP1: IP module

- * D2:transmission time 60sec. M2:max transmission time 120sec. T2:time of control information transmission 25h
- S0:no bearing replacement I0: no protection of the information.

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index

important Notes.....	2
guarantee	2
compliance	2
standards CEI 79-2:1998+Ab:2000, CEI EN 50131-3:2009 e CEI EN 50131-6:2008.....	2
manufaturer.....	3
introduction	5
using the system	6
ARM/DISARM partials	6
ARM/DISARM groups	6
system info	6
shortcut	6
notifications.....	7
events menu	7
enable installer access.....	8
activate outputs menu.....	8
enable remote management.....	8
change code menu.....	8
menu TCP/IP	8
ip addresses	8
cloud parameters	8
account	8
enable notific.....	8
programming and cancelling keys.....	9
credit management	9
menu timer	9
test menu	9
sms management.....	10
ARM/DISARM THE CONTROL UNIT VIA SMS	10
sms commands	10
how to create a REQUEST AND programming sms	10
date/time menu	10
user programming menu	11
user programming menu	12

INTRODUCTION

K series are security control panel for building protection conform* **CEI EN 50131-3:2009 e CEI EN 50131-6:2008 Grade: 2**

The control panel are equipped of 4/8 zones, expandable to 12/24, even without zones expansions. It is possible to obtain more zones by double and triple EOL split line. In case the split zones is not allowed, it is possible to use zones expansion.

K series are able to notify one or more situations of ALARM, ROBBERY, TAMPERING AN TROUBLE with different carriers:

- PSTN LINE (tipo ATS2) ON BOARD
- GSM e GPRS optional module
- IP module optional

*** after specific programming**

The programming can be via local keypad or a PC with specific software.

The main features are:

SPECIFICATIONS	K4	K8
zones	4 -12 wired/radio/split double,triple EOL	8 -24 wired/radio/split double,triple EOL
outputs	2 on board - espandibile to 5 (with 1 expansion)	2 on board - espandibile to 5 (with 1 expansion)
user code/tag/ remote	32 users	32 users
partitions	4	4
group	4	4
keypad	4	4
tag reader	4	4
event memory	1000	1000
phone numbers	8 for SMS + 8 for protocols	8 for SMS + 8 for protocols
carriers	PSTN on board, GSM/GPRS module, IP module	PSTN on board, GSM/GPRS module, IP module
other inputs	TAMPER line / mechanical antiopening tamper	TAMPER line / mechanical antiopening tamper
PC software	yes	yes
remote management IP - GPRS	HTML page apps (Apple - Android - Win phone)	HTML page apps (Apple - Android - Win phone)
timers	4 per day week	4 per day week

The programming can be made through the keypad or with a PC software.

USING THE SYSTEM

As previously described, the control unit has 4 partials and 4 arming groups.

The partials consist of arming and disarming programs that include inputs and can be freely associated to users and timers.

The groups, are clusters of partials that can also be freely associated to users and timers. The groups are created to make it easier to arm scenarios very easily and intuitively.

ARM/DISARM PARTIALS

When the system displaying the date and time, digit personal code (default 111111).

The screen that will appear: fig. 1

After the confirm of activation, a horizontal synoptics panel appears that indicates the arming choice (fig. 2). By using the number keys, is it possible select the number of the partial and/or partials to be armed. Figure 3 shows the activation of partial 1, the line above shows the name and the line below shows which partial was selected. Fig. 4 shows the activation of 2 partials (1 and 2). The flashing cursor is on partial 2, therefore the name that appears is the one for P2.

fig1

**ARM
SYSTEM**

fig2

0=TOT 1-8=PRG
- - - - -

fig3

program 1
1 - - - - -

fig4

perimetric
1 2 - - - - -

Note: partial selection is step-by-step so pressing the number of the partial more than once turns it off and back on.

ARM/DISARM GROUPS

Each group can be given a name and be associated with the desired partials.

Once programmed, activation is done in the same manner as the partials with the only difference being that activation of the 4 available groups is done using the 4 arrow keys:



After keyed code and confirmed it, pressing one of the 4 arrow keys will select the group with the related name and associated partials (fig 2). Confirm with ENTER

fig2

PERIMETER
- 2 3 4 - - - -

In the figure, the group called "PERIMETER" is made up of 3 partials (2-3-4)

SYSTEM INFO

The control panel has a quick menu to access to basic information, during in the disarm status, if is keyed CANCEL button many times it is possible to access information:

- quick event log menù
- PSTN status
- GSM status
- Battery status
- Main Power status
- Internet status
- Cloud connection status
- Firmware version
- Hardware status

SHORTCUT

The control panel has 2 type of PANIC shortcut, **silent with G2 and G3**, keyed in the same time for 2 seconds, **siren with G1 and G4**. Is it possible link the activation commands directly to the number button. If one key number is pressed for few second the linked out will turn ON or OFF, this operation is displayed directly in keypad LCD (fig1)



**garden light
activate**



**garden light
deactivate**

NOTIFICATIONS

The notification system is a list of alarms and errors from the control unit. When the red LED on the keypad turns on, the control unit is notifying that there are events to read. Pressing the CANCEL key accesses the notification screen. In the figure, the system shows that there are 3 notifications to read. They can be read after inserting an enabled code.

Fig 1 the system shows 3 notifications

3 Events
[]

fig 1

Fig 2 When the code is entered, the system shows the notifications in chronological order. You can scroll through the log using the up arrow key.

16:35 - 27/02/13
lounge radar alarm

fig 2

Fig 3 When they have been read the red LED will turn off and the message in the figure will appear

<< NO NEW >>
<< EVENT >> #Exit

fig 3

EVENTS MENU

The control unit saves each system operation and occurrence.

The system can save 1000 events with rotating update system. Once the log capacity is full, the system will delete the oldest event to make space for new ones. Is it possible read the event log sort by type.

Fig1 Reading menu for all events

EVENTS MEMORY
All

fig 1

Fig 2 Reading menu for only unread events

EVENTS MEMORY
Unread

fig 2

Fig 3 Reading menu for only alarm events

EVENTS MEMORY
Alarms

fig 3

Fig 4 Reading menu for events connected to operating errors

EVENTS MEMORY
Anomalies

fig 4

Fig 5 Reading menu for system arming and disarming events

EVENTS MEMORY
Arming/Disarming

fig 5

Fig 6 Reading menu for user accesses

EVENTS MEMORY
Users

fig 6

ENABLE INSTALLER ACCESS

This parameter is used to allow installer to enter in technical editor. When this parameter is set to 1, the installer can enter in the his menù. Key the personal code and with down error go to parameter ENABLE INSTALLER ACCESS, Press enter and set 1 to allow. (0=not allowed)

ACTIVATE OUTPUTS MENU

The control unit has a system with a synoptics panel for quick activation of the outputs associated to a user code. Once entered in the output activation menu, press ENTER and go to the associated outputs. Use the vertical arrow keys to activate and deactivate.

The figures to the side show the output activation screens. The outputs that can be activated are only those showing 0=deactivated and 1=activated.

All outputs marked with a dash cannot be activated because they are programmed with other functions.

Once you have entered the activation menu, use the horizontal arrow keys to move from one output to the other and the vertical arrow keys to activate or deactivate

(up arrow = activate, down arrow = deactivate)

ACTIVATE OUTPUTS

[05] name output 05
0 - - - 0 - - - - -

[05] name output 05
0 - - - 1 - - - - -

ENABLE REMOTE MANAGEMENT

If enabled, this parameter allows connection to the control unit via software. Enter the ENABLE REMOTE MANAGEMENT menu and change the parameter from 0 to 1. This way you can connect using the programming software.

ENABLE
TELEMANAGEMENT

TELEMANAGEMENT
Enabled 1

CHANGE CODE MENU

If you have an enabled user code (master code) you can change your own code and the code for other users.

Once you have entered the CHANGE CODES, use the vertical arrows to select the user and press ENTER to change the codes.

CHANGE
CODE

CODE: User Nr 01
111111

MENU TCP/IP

This parameters is used for setup the panel for work with AMC Cloud and smatphone app.

IP ADDRESSES

With this parameter it is possible to set IP address for IP Board:

select DHCP to 1 for automatic setting

If set 0 is possible set all net parameter:

IP address: eg. 192.168.000.008

Subnet mask: 255.255.255.000

Gateway: 192.168.001.001

DNS1: 000.000.000.000

DNS2: 208.067.000.000

CLOUD PARAMETERS

cloud amc

ACCOUNT

control unit account

ENABLE NOTIFIC.

smartphone notification

PROGRAMMING AND CANCELLING KEYS

Programming the keys can ONLY be done by an enabled user. This same user can create keys for all selected users. Selected the PROGRAMMING KEYS menu, confirm with ENTER, select the user using the vertical arrow keys, send the learning command by pressing ENTER, 15" countdown will start during which the LEDs on the READER will flash and the user must place a key close to the READER when the code is learned, the led stop, and in keypad displayed successful.

PROGRAM KEY
User Nr 01

Insert Key
by 15 sec.

Cancellation is done in exactly the same manner as programming. Once the user to be cancelled is selected, press ENTER to confirm cancellation.

CREDIT MANAGEMENT

In this menu is it possible enter the parameters for sending the credit request SMS.

A specific menu "TEL. provider" and "SMS provider" can be used to enter data for Other Mobile Phone Providers.

For Check the correct value of SIM credit, is important that the KEYWORD be entered. The keyword is a word immediately before number of credit value, in the SMS sent by provider.

The Credit value is always updated each time the control unit performs a data CMS call or sends an sms. The message received from the provider containing the credit value will be shown directly on the display.

Credit threshold is the minimum level credit before send the info. (default is 3€ or other currency)

MENU TIMER

This parameter is used bypass the automatic timer arming. If is set a timer, is it possible switch the arm/disarm operation in manual. When there is value 0 the timer is bypassed. (default = 1)

TEST MENU

The control unit is equipped with a test tool to be able to verify that the system is operating properly.

The tests that can be performed are: - sirens - inputs - outputs - voice call - Contact ID call

In the fig. it screens the siren test. ENTER key to activate and deactivate the siren test

TEST
Siren

SIREN TEST
Activate ??

SIREN TEST
Disactivate ??

The inputs test is performed by counting down programming zones. In the figure there are 34 inputs to test. After test (by passing in front of sensors) press enter, in case some sensor don't work the system will show that sensor.

INPUTS TEST
Tot:34 V-stop

The output test is made by select the out and activate for 5 seconds. The figure shows the test screen. Use the ENTER key to activate the output.

TEST OUTPUTS
Tot:17 V-start

01-output one
Activate??

01-output one
Activated (4.3.2...)

For the CID test, the call will be made to telephone number no. 1, communicating the life test event. The call is activated by pressing ENTER and waiting for it to arrive. The event that is sent is always the life test (event no. 602).

TEST
ContactID PSTN/GSM

SMS MANAGEMENT

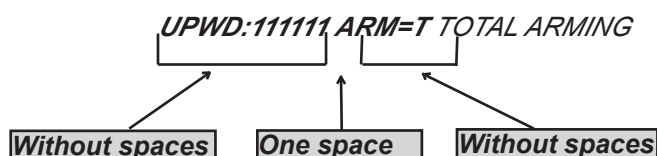
ARM/DISARM THE CONTROL UNIT VIA SMS

To arm and/or disarm the control unit you must have a user code:

UPWD:111111 ARM=T	TOTAL ARMING
UPWD:111111 ARM=1	PARTIAL1 ARMING
UPWD:111111 ARM=123	ARMING OF PARTIALS 1 - 2 - 3
UPWD:111111 DISARM=T	TOTAL DISARMING
UPWD:111111 DISARM= 2	DISARMING OF ONLY PARTIAL 2
UPWD:111111 DISARM= 12	DISARMING OF PARTIALS 1 - 2
UPWD:111111 ARM?	

ARMING STATUS REQUEST FROM THE CONTROL UNIT

ARM = 0 DISARMED
ARM =T TOTAL ARMED
ARM = 12 PARTIALS 1 - 2 ARMED



SMS COMMANDS

This is the complete list of all of the system programming/querying commands

LOCK	SYSTEM UNLOCK COMMAND (to allow to modify phone numbers) (LOCK=1 for unlock)
TPWD	TECHNICIAN PASSWORD DECLARATION (TPWD:000000 CODE)
UPWD	USER PASSWORD DECLARATION (UPWD:111111 CODE)
ARM	ARMING COMMAND (T=total 1=partial 1 etc.)
DISARM	DISARMING COMMAND (
OUT.x	OUTPUT SELECTION COMMAND
IN.x	INPUT SELECTION COMMAND
TEL.x	TELEPHONE SELECTION COMMAND
:	IS USED FOR USER/INSTALLER CODE
=	COMMAND FOR ASSIGN PARAMETER
?	REQUEST INFO COMMAD

HOW TO CREATE A REQUEST AND PROGRAMMING SMS

To send a command to the system you need follow a few simple rules:

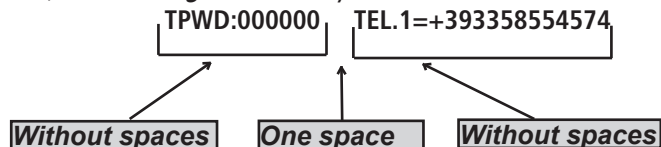
For example, in order to the installer to change a telephone number, he must first have authorisation from the system owner (system unlock)

UPWD:111111 LOCK=OFF this command unlocks the programming via sms for 20 minutes.

This unlock must be done by the system owner. (final user)

Now the installer can give the command:

As you can see, the message is made up of two commands:



1 - the password declaration (TPWD:000000 or UPWD:111111) This command requires the (:) (colon) to enter the code.

2 - this is the operational part of the message that uses the (=) to assign the operation, the (?) to request information (a few examples follow)

TEL.1=+393358554574 setting telephone number response from the system TEL.1:OK

OUT.2=onoutput 2 activation response from the system OUT.:OK

OUT.4=off deactivation of output 4 response from the system OUT.4:OK

IN.2? input 2 status request response from the system IN.2=OP (if open) IN.2=CL (if at rest)

DATE/TIME MENU

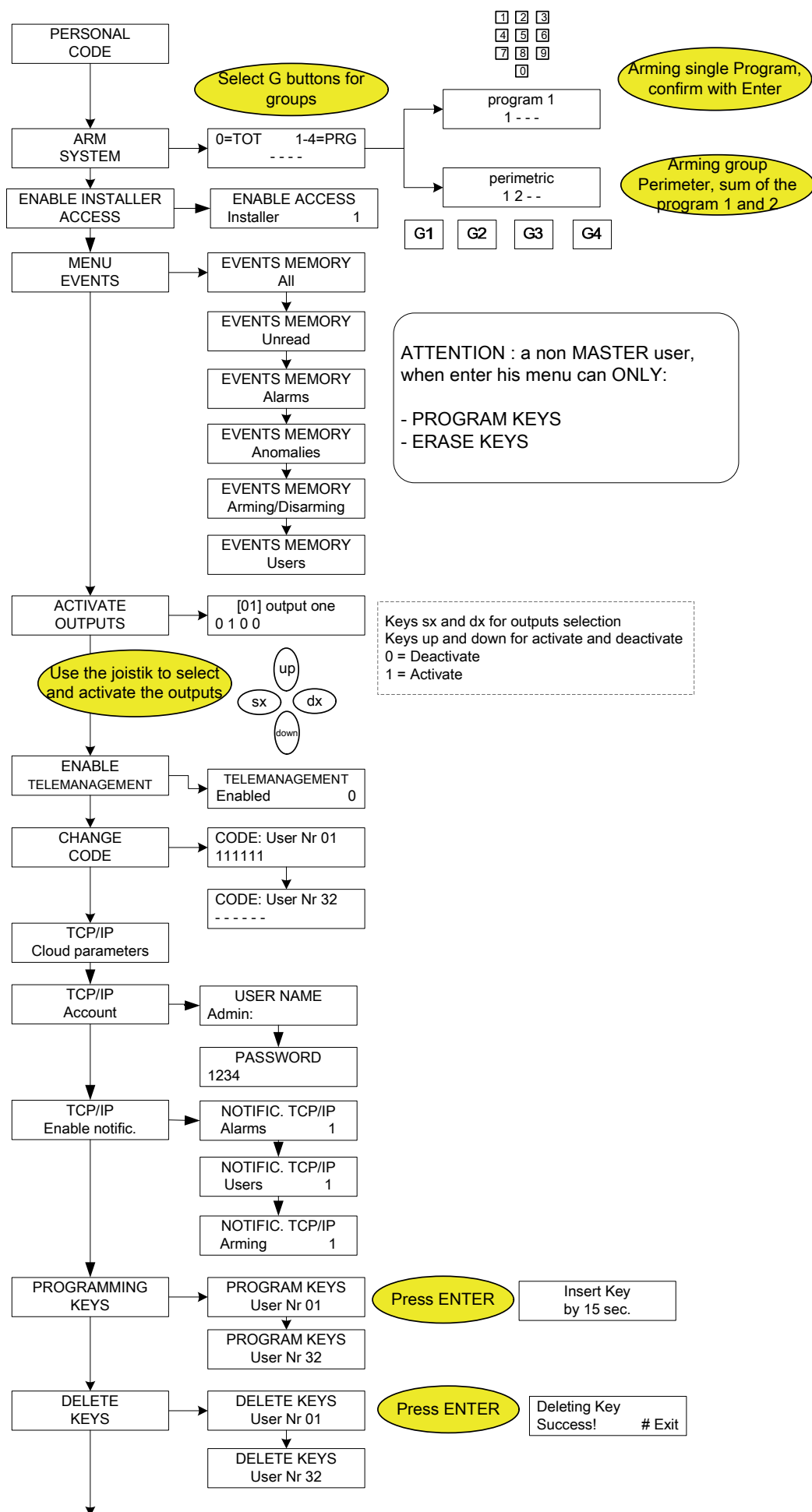
Set the date and time on this menu

Enter the menu, press ENTER to change

Press ENTER again to enter the day of the week (1 for Mon, 2 for Tue...0 for sun)

Press the Right arrow to enter the day/month/year/hours/minutes in sequence **Confirm with ENTER**

USER PROGRAMMING MENU



USER PROGRAMMING MENU

